

To ship Feb 19

Work Order ID 141796

141796

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February 11, 2016 1:42:12 PM

Item ID: 647.3702

Accept

N900040100

Setup Start *NS1*

Revision ID:

Stop *NS2*

Item Name: 412 Cable Cutter System, High

Start Date: 2/11/2016 Start Qty: 1.00

1

Cust Item ID:

Required Date: 2/19/2016 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals: Process Plan: SM Date: 20160211 Tooling: _____ Date: _____
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start *NR1*

Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr	Revision Nbr
647.3700	NC3

DAS
6
9-89

MW 16-02-16

100

0.00

100

DOCUMENT CONTROL

DC

Memo

0.00

Doc.Control -USB or Paperwork

Photocopy bluefile & type labels per PPP 647.3702

DAS
9
9-89

① 16-02-13

110

Pick Kit

0.00

110

Packaging

Memo

0.00

Packaging

DAS
6
9-89

FEB 16 2016

120

QC4- 100% Inspect kits for completeness

0.00

120

QC

Memo

0.00

Quality Control

DAS
9
9-89

① 16-02-13

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval																																																										
Description Work Order Deviation				Disposition				Completed By																																																									
								Lead hand / Supervisor Approval Verification																																																									
								QC / QA Coordinator Approval																																																									
Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER :			
Misidentified ☐	Past Due ☐																																																																

Work Order ID 141796

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Page 2

Item ID: 647.3702 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: 412 Cable Cutter System, High
Start Date: 2/11/2016 Start Qty: 1.00 ***1*** Cust Item ID:
Required Date: 2/19/2016 Req'd Qty: 1.00 ***1*** Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Packaging	0.00							
130									
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP 647.3702								
	Location: _____								
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.00							
Quality Control									

Sold

1 *SMB* *16/2/18*

MCS **FEB 18 2016**

MCS **FEB 18 2016**

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____		
Description Work Order Deviation				Disposition					

Root Cause				FAULT CATEGORY			
Environment ☐	☐	No Re-verification ☐	☐	Pressure/Forced ☐	☐	Temperature/Cure ☐	☐
Design ☐	☐	Operator ☐	☐	Bending ☐	☐	Set-up ☐	☐
Doc/Data ☐	☐	Offset/Setup ☐	☐	Centre Not Concentric ☐	☐	BOM/Route ☐	☐
Equip/Tooling ☐	☐	Supplier ☐	☐	Cracks ☐	☐	Broken/Damage/Defect ☐	☐
Handling/Pre ☐	☐	Training ☐	☐	Crimp/Kink/Ripple/Wave ☐	☐	Inspection Incomplete/Unqualified ☐	☐
Material ☐	☐	Use for Testing ☐	☐	Cuffs ☐	☐	Contamination ☐	☐
Internal Transport ☐	☐	Poor Information ☐	☐	Crushing ☐	☐	Countersink ☐	☐
Tribal Knowledge ☐	☐	Rushing ☐	☐	Heat Treat ☐	☐	Cut Too Short ☐	☐
LOA ☐	☐	Product Improvement ☐	☐	Wave/Twist in Tube ☐	☐	Instructions Incomplete/Unclear ☐	☐
Substation ☐	☐	Process Improvement ☐	☐	Marks/Chatter ☐	☐	Drill Holes ☐	☐
Past Expiry Date ☐	☐	Manufacturing Process ☐	☐	OTHER : _____ _____ _____			
Misidentified ☐	☐	Past Due ☐	☐				

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Work Order ID: 141796

141796

Parent Item: 647.3702

647 3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 2/11/2016

Required Date: 2/19/2016

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP REV:A 12.10.26 NEW ISSUE DD VERF:JLM
REV:B 15.01.26 as per ecr 14-214 DD VERF:JLM
PER REV NC3 15.03.18 JLM VERIFIED BY:DD

IPP
IPP REV:C AS

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
601.3082 *601 3082* RIVET	DAS 9 9-89	Purchased	No				Each	9.0000		6			
				<u>Location</u>				<u>Loc Qty</u>		<u>Loc Code</u>			
				CCK099				9					DAS 27 6 9-89
				m129702				9					
CR3212-4-1 647.3903 *647 3903* Deflector Assembly	DAS 9 9-89	Manufactured	No				Each	0.0000		1			
647.3801 *647 3801* 412 Upper Cutter Assy	DAS 9 9-89	Manufactured	No			110	Each	9.0000	1	1			
				<u>Location</u>				<u>Loc Qty</u>		<u>Loc Code</u>			
				CCK028				9					DAS 27 6 9-89
				124725				2					
				124726				2					
				124728				3					
				m129702				2					
647.3804 *647 3804* Lower Cutter Assy High	DAS 9 9-89	Manufactured	No			110	Each	0.0000	1	1			
													DAS 27 6 9-89

JUN 06 2016

JUN 06 2016

JUN 06 2016

DAS 27
6 9-89

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Work Order ID: 141796

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Parent Item: 647.3702

647 3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 2/11/2016

Required Date: 2/19/2016

Start Qty: 1.00

Required Qty: 1.00

647.4410 DAS
647 4410 9
 Rail 9-89

110 Each 20.0000 1 1

Location

Loc Qty

Loc Code

CCK081

20

120755

4

120986

16

647.4010 DAS
647 4010 9
 Wiper Deflector RH 9-89

110 Each 23.0000 1 1

Location

Loc Qty

Loc Code

cck87

23

120740

17

m129721

6

647.4011 DAS
647 4011 9
 Wiper Deflector LH 9-89

110 Each 22.0000 1 1

Location

Loc Qty

Loc Code

cck78

22

120741

16

m129721

6

647.4110 DAS
647 4110 9
 Doubler 9-89

110 Each 19.0000 1 1

Location

Loc Qty

Loc Code

CCK080

19

120742

1

120987

18

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Work Order ID: 141796

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Parent Item: 647.3702

647 3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 2/11/2016

Required Date: 2/19/2016

Start Qty: 1.00

Required Qty: 1.00

647.4111 **DAS** Manufactured No
647 4111 9
 Doubler 9-89

110 Each 20.0000 1 1

DAS
6
9-89
27
9-89

Location Loc Qty Loc Code

cck111 20
 120743 16
 120967 4

647.4112 **DAS** Manufactured No
647 4112 9
 Clip 9-89

110 Each 8.0000 1 1

DAS
6
9-89
27
9-89

Location Loc Qty Loc Code

CCK112 8
 126770 8

647.4113 **DAS** Manufactured No
647 4113 9
 Clip 9-89

110 Each 8.0000 1 1

DAS
6
9-89
27
9-89

Location Loc Qty Loc Code

CCK112 8
 126771 8

647.4114 **DAS** Manufactured No
647 4114 9
 Shim 9-89

110 Each 45.0000 2 2

DAS
6
9-89
27
9-89

Location Loc Qty Loc Code

CCK112 45
 120635 14
 120746 28
 120941 3

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Work Order ID: 141796

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Parent Item: 647.3702

647 3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 2/11/2016

Required Date: 2/19/2016

Start Qty: 1.00

Required Qty: 1.00

647.4311

Manufactured No

110

Each

4.0000

1

1

647 4311

DAS
9
9-89

RH Lower Strut

★★

DAS
6
9-89

Location

Loc Qty

Loc Code

CCK67

4

126398

4

647.4310

Manufactured No

110

Each

23.0000

1

1

647 4310

DAS
9
9-89

LH Lower Strut

★★

DAS
6
9-89

Location

Loc Qty

Loc Code

cck066

23

126395

19

126396

4

647.4312

Manufactured No

110

Each

4.0000

1

1

647 4312

DAS
9
9-89

LH Upper Strut

★★

DAS
6
9-89

Location

Loc Qty

Loc Code

CCK67

4

126399

4

647.4313

Manufactured No

110

Each

4.0000

1

1

647 4313

DAS
9
9-89

RH Upper Strut

★★

DAS
6
9-89

Location

Loc Qty

Loc Code

cck068

4

126401

4

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Work Order ID: 141796

Parent Item: 647.3702

Parent Item Name: 412 Cable Cutter System, High

141796
647 3702

Start Date: 2/11/2016

Required Date: 2/19/2016

Start Qty: 1.00

Required Qty: 1.00

NAS1149FN832P

Purchased

No

NAS1149FN832P

DAS
9
9-89

Washer

110 Each 3,065.000 34 34

**

DAS
6
9-89

DAS
6
9-89

Location

Loc Qty

Loc Code

GA

1589

M133316

16

M133769

1573

ST262

1476

M133709

1476

34

NAS1149F0332P

Purchased

No

NAS1149F0332P

DAS
9
9-89

Washer

110 Each 3,229.000 157 157

**

DAS
6
9-89

DAS
6
9-89

Location

Loc Qty

Loc Code

GA

384

m133709

384

ST260a

1500

m134134

1500

ST262

1345

m133938

7

m134055

1338

157

MS27039-1-07

Purchased

No

MS27039-1-07

DAS
9
9-89

Screw

110 Each 371.0000 12 12

**

DAS
6
9-89

DAS
6
9-89

Location

Loc Qty

Loc Code

GA

334

125654

334

ST281

37

m127813

37

12

JUN 06 2016

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Work Order ID: 141796

Parent Item: 647.3702

Parent Item Name: 412 Cable Cutter System, High

141796

647 3702

Start Date: 2/11/2016

Required Date: 2/19/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-10

Purchased

No

110

Each

258.0000

42

42

MS27039-1-10

SCREW

DAS
9
9-89

**

DAS
6
9-89
DAS
27
9-89

Location

Loc Qty

Loc Code

CA

41

m128635

41

GA

50

m129541

50

ST280

167

m134166

167

42

MS27039-08-08

Purchased

No

110

Each

127.0000

16

16

MS27039-08-08

Screw

DAS
9
9-89

**

DAS
6
9-89

Location

Loc Qty

Loc Code

CA

8

m130113

8

ST278

119

m130799

19

m134142

100

16

MS27039-1-09

Purchased

No

110

Each

279.0000

14

14

MS27039-1-09

Screw

DAS
9
9-89

**

DAS
27
9-89
DAS
6
9-89
JUN 06 2016

Location

Loc Qty

Loc Code

FP001

34

18057

34

GA

36

124859

36

ST280

209

125646

9

m134167

200

9

5

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Work Order ID: 141796

Parent Item: 647.3702

Parent Item Name: 412 Cable Cutter System, High

141796

647 3702

Start Date: 2/11/2016

Required Date: 2/19/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-08-11

Purchased

No

110

Each

460.0000

2

2

MS27039-08-11

SCREW

DAS
9
9-89

**

DAS
6
9-89

6
7
8-89

Location

Loc Qty

Loc Code

over006

450

m133769

450

ST278

10

m133363

10

MS24694-S49

Purchased

No

110

Each

226.0000

1

1

MS24694-S49

Screw

DAS
9
9-89

**

DAS
6
9-89

6
7
8-89

Location

Loc Qty

Loc Code

ST284

226

m129499

100

m129702

126

MS24694-C53

Purchased

No

110

Each

112.0000

8

8

MS24694-C53

Screw

DAS
9
9-89

**

DAS
6
9-89

6
7
8-89

Location

Loc Qty

Loc Code

ST285

112

m129702

112

601.3073

Purchased

No

110

Each

4.0000

1

1

601 3073

Connector

DAS
9
9-89

**

DAS
6
9-89

6
7
8-89

Location

Loc Qty

Loc Code

CCK099

4

M133781

4

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Work Order ID: 141796

141796

Parent Item: 647.3702

647 3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 2/11/2016

Required Date: 2/19/2016

Start Qty: 1.00

Required Qty: 1.00

AN3-4A
AN3-4A
Bolt
DAS 9 9-89
Purchased No

110 Each 278.0000 3 3

**

DAS 6 9-89
S 27 9-89

Location Loc Qty Loc Code

over003 250
m133990 250
ST350 28
m129682 10
m133694 18

AN3-11A
AN3-11A
Bolt
DAS 9 9-89
Purchased No

110 Each 324.0000 8 8

**

DAS 6 9-89
S 27 9-89

Location Loc Qty Loc Code

over003 100
m133992 100
OVER003 200
m134167 200
ST349 24
m133561 24

AN3C10A
AN3C10A
Bolt
DAS 9 9-89
Purchased No

110 Each 21.0000 2 2

**

DAS 6 9-89
S 27 9-89
JUN 06 2016

Location Loc Qty Loc Code

ST349 21
3 + m128634 1
m134167 20

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Work Order ID: 141796

Parent Item: 647.3702

Parent Item Name: 412 Cable Cutter System, High

141796

647 3702

Start Date: 2/11/2016

Required Date: 2/19/2016

Start Qty: 1.00

Required Qty: 1.00

CR3212-4-2
CR3212-4-2
Cherry Rivet

DAS
9
9-89

Purchased

No

110

Each

56.0000

6

6

**

DAS
6
9-89

Location

Loc Qty

Loc Code

ST321

56

m133363

56

CR3212-4-3
CR3212-4-3
Cherry Rivet

DAS
9
9-89

Purchased

No

110

Each

0.0000

17

17

**

CR3212-4-4
CR3212-4-4
CHERRY RIVET

DAS
9
9-89

Purchased

No

110

Each

0.0000

4

4

**

CCR264SS3-04
CCR264SS3-04
Rivet

DAS
9
9-89

Purchased

No

110

Each

591.0000

12

12

**

Location

Loc Qty

Loc Code

CCK004

590

123785

400

3 2/ X m129702

190

ST321

1

4 + 123352

1

CCR264SS-3-03
CCR264SS-3-03
Rivet

DAS
9
9-89

Purchased

No

110

Each

211.0000

16

16

**

Location

Loc Qty

Loc Code

LG001

59

m128606

59

ST321

152

m134023

152

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Work Order ID: 141796

Parent Item: 647.3702

Parent Item Name: 412 Cable Cutter System, High

141796

647 3702

Start Date: 2/11/2016

Required Date: 2/19/2016

Start Qty: 1.00

Required Qty: 1.00

CR3213-4-2

Purchased

No

110

Each

399.0000

13

13

CR3213-4-2

DAS
9
9-89

Cherry Rivet

**

DAS
6
9-89



Location

Loc Qty

Loc Code

CCK003

192

123301

192

ST319

207

m131340

207

13

CR3213-4-3

Purchased

No

110

Each

590.0000

32

32

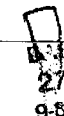
CR3213-4-3

DAS
9
9-89

Rivet, Cherry

**

DAS
6
9-89



Location

Loc Qty

Loc Code

CCK004

140

m129541

100

m130388

40

ST318

200

m131340

200

ST320

250

123301

250

32

CR3213-4-4

Purchased

No

110

Each

248.0000

19

19

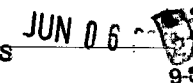
CR3213-4-4

DAS
9
9-89

Rivet, Cherry

**

DAS
6
9-89



Location

Loc Qty

Loc Code

ST319

45

M130388

45

ST320

203

M133694

203

79

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Work Order ID: 141796

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Parent Item: 647.3702

647 3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 2/11/2016

Required Date: 2/19/2016

Start Qty: 1.00

Required Qty: 1.00

CR3213-4-5

Purchased

No

110

Each

125.0000

42

42

DAS

6

9-89

CR3213-4-5

DAS
9
9-89

Rivet

**

134167 x 8

133541 x 34

Location

Loc Qty

Loc Code

ST319

125

M129913

125

CR3213-4-8

Purchased

No

110

Each

124.0000

4

4

CR3213-4-8

DAS
9
9-89

Rivet

**

Location

Loc Qty

Loc Code

ST319

124

123785

124

MS21042-3

MS21042L3

Purchased

No

110

Each

18.0000

79

79

MS21042-3

DAS
9
9-89

Nut / use MS21042L3

**

134039

Location

Loc Qty

Loc Code

ST304

18

M129682

18

MS21042-08

MS21042L08

Purchased

No

110

Each

33.0000

18

18

MS21042-08

DAS
9
9-89

USE MS21042L08

**

133922

Location

Loc Qty

Loc Code

ST304

25

122815

25

ST306

8

m130388

8

February 11, 2016 1:42:19 PM

Shop Packet Print

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JUN 06 2016

Picklist Print

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Page 13

Work Order ID: 141796

Parent Item: 647.3702

Parent Item Name: 412 Cable Cutter System, High

141796

647.3702

Start Date: 2/11/2016

Required Date: 2/19/2016

Start Qty: 1.00

Required Qty: 1.00

MS21047L06

Purchased

No

110

Each

76.0000

6

6

MS21047L06

DAS

9

Nut Plate

9-89

**

DAS

6

9-89

DAS

27

9-89

Location

Loc Qty

Loc Code

ST301

5

129702

5

ST303

71

m131340

71

MS21047L08

Purchased

No

110

Each

69.0000

6

6

MS21047L08

DAS

9

Nut Plate

9-89

**

DAS

6

9-89

DAS

27

9-89

Location

Loc Qty

Loc Code

ST301

69

m129702

69

MS21047-3

Purchased

No

110

Each

381.0000

4

4

MS21047-3

DAS

9

Nut Plate

9-89

**

DAS

6

9-89

DAS

27

9-89

Location

Loc Qty

Loc Code

over005

200

m134166

200

ST301

181

m133938

81

m134055

100

JUN 06 2016

Picklist Print

February 11, 2016 1:42:19 PM

Page 14

Work Order ID: 141796

141796

Parent Item: 647.3702

647 3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 2/11/2016

Required Date: 2/19/2016

Start Qty: 1.00

Required Qty: 1.00

MS21071L3

Purchased

No

110

Each

215.0000

4

4

MS21071L3

DAS
9
9-89

ANCHOR NUT

**

Location

Loc Qty

Loc Code

ST299

115

124291

11

m129702

104

ST301

100

125654

100

601.3083

Manufactured

No

110

Each

2.0000

1

1

601 3083

DAS
9
9-89

Adhesive Rubber Seal

**

Location

Loc Qty

Loc Code

cck009

2

130723

2

601.1012

600.1012

Purchased

No

110

Each

0.0000

1

1

601 1012

Sealant (One 6 oz)

601.2045

JUN 06 2016

Purchased

No

110

Each

11.0000

1

1

601 2045

RTV (LOCTITE 598)McMaster p/n 6641A41

DAS
9
9-89

**

Location

Loc Qty

Loc Code

CCK096

1

m133275

1

CCK109

10

m133588

10

5/31/2017

FEB 16 2016



04881

DWG NO. 647.3700

REV: N/C

PREPARED BY J. BECKER

DATE: 02/26/15

EFFECT ON DWG

☐ INC. ☒ UNINC.

DWG TITLE: 412 CABLE CUTTERS KIT

APPROVED BY:	ENGR
--------------	------

MFG

QC

EFF.	NEXT ORDER
------	------------

TRANSACTION CODES (TC):
A-ADD C-CREATE
R-REVISE D-DELETE

REASON: DELETED F/N 57, REVISED F/N 6.

ECR: N/A

SHOWN ISOMETRICALLY ☒

20160211

SW 141796

57	D	647.3916	1	1	1	1	DEFLECTOR UPPER HALF			
6	R	647.3903	1	1	1	1	DEFLECTOR ASSEMBLY			
F/N	TC	PART NUMBER	3704	3703	3702	3701	DESCRIPTION		MATERIAL	SPECIFICATION
			QTY							
DOCUMENTS EFFECTED:								CHANGE CATEGORY	DER REVIEW REQUIRED	
☐ PATTERN ☐ MDL ☐ INSTALL INSTRUCTIONS ☐ ICA ☐ FMS ☒ BOM								☐ MAJOR ☒ MINOR	☐ YES ☒ NO	



APICAL INDUSTRIES, INC.
dba DART AEROSPACE

ENGINEERING CHANGE NOTICE NO.

04845

SHEET 1 OF 1

DWG NO. 647.3700

REV: N/C PREPARED BY J. BECKER

DATE: 02/11/15

EFFECT ON DWG
☐ INC. ☒ UNINC.

DWG TITLE: 412 CABLE CUTTERS KIT

APPROVED BY: ENGR

MFG

QC

EFF. NEXT ORDER

TRANSACTION CODES (TC):
A-ADD C-CREATE
R-REVISE D-DELETE

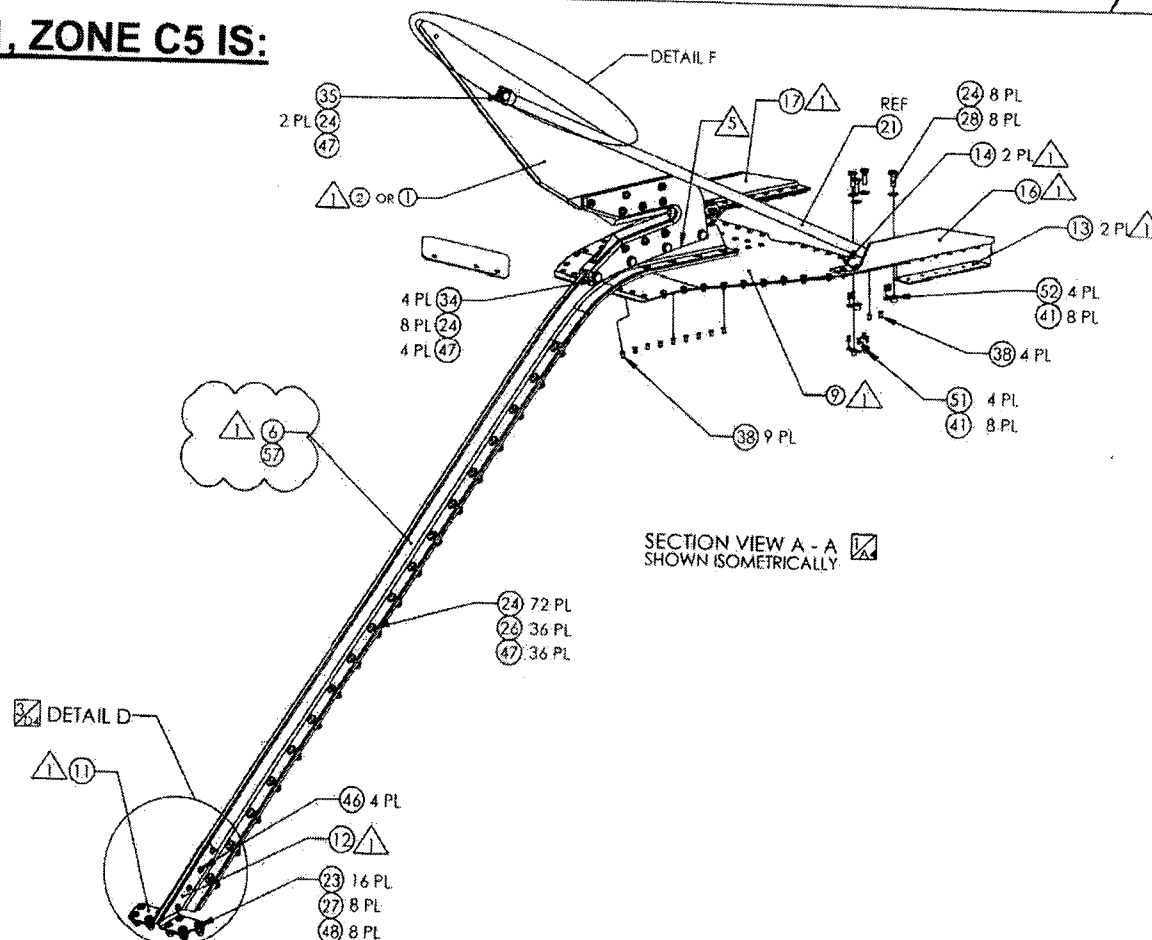
REASON: ADDED F/N 57

ECR:

ACTION ITEM:

1.

SHEET 1, ZONE C5 IS:



57	A	647.3916	1	1	1	1	DEFLECTOR UPPER HALF								
F/N	TC	PART NUMBER	3704	3703	3702	3701	DESCRIPTION				MATERIAL	SPECIFICATION			
			QTY												
DOCUMENTS EFFECTED:												CHANGE CATEGORY		DER REVIEW REQUIRED	
☐ PATTERN ☐ MDL ☐ INSTALL INSTRUCTIONS ☐ ICA ☐ FMS ☒ BOM												☐ MAJOR ☒ MINOR		☐ YES ☒ NO	

APICAL
INDUSTRIES, INC.

ENGINEERING CHANGE NOTICE NO. 02728

SHEET 1 OF 1

DWG NO. 647.3700

REV: NC

PREPARED BY

R. ROSANO

DATE: 12/23/09

EFFECT ON DWG
☐ INC. ☒ UNINC.

DWG TITLE: 412 CABLE CUTTERS KIT

APPROVED BY:

ENGR

KMF3

QC

TEFF

~~1~~ NEXT ORDER

TRANSACTION CODES (TC):

A-ADD

C-CREATE

R-REVISE

D-DELETE

REASON: ADDED MODEL 214 TO APPROPRIATE DESCRIPTIONS

SHEET 1, ZONE D7 IS:

IS

		X				647.3704	204, 205, 212, 214 CABLE CUTTERS KIT HIGH		
			X			647.3703	204, 205, 212, 214 CABLE CUTTERS KIT LOW		
				X		647.3702	412 CABLE CUTTERS KIT HIGH		
					X	647.3701	412 CABLE CUTTERS KIT LOW		
	.3704	.3703	.3702	.3701	FIND	PART #	DESCRIPTION	MAT'L	SPEC.

F/N	TC	PART NUMBER		2901
			QTY	

QTY

DESCRIPTION

MATERIAL

SPECIFICATION

DOCUMENTS EFFECTED:

☒ MDL☒ IN

TALL INSTRUC

☒ ICA☒ RDN

CHANGE CATEGORY
☐ MAJOR ☒ MINOR

DER REVIEW REQUIRED

☒ YES☐ NO

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NOTES:

- 1 AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES.
- 2 IF REQD. USE F/N 32 TO CONNECT CO-AXIAL CABLE.
- 3 VENDOR : ONLINECOMPONENTS.COM
- 4 AT CUSTOMERS OPTION, INSTALL F/N 56 BY MATCH DRILLING ONTO F/N 1 OR F/N 2.
- 5 APPLY F/N 55 TO FAYING SURFACES.
- 6 VENDOR : MCMASTER-CARR
VENDOR P/N: 86715K27
60A DUROMETER

DETAIL C

4/203

647.3701 SHOWN

REF	REF	REF	REF	56	647.5701	GPS MOUNT KIT	
A/R	A/R	A/R	A/R	55	601.2045	RTV	LOCITE 598
A/R	A/R	A/R	A/R	54	601.1012	SEALANT	PR-1225 CLASS B
1	1	1	1	53	601.3083	ADHESIVE RUBBER SEAL	MIL-R-3065
4	4	4	4	52	601.2957	NUTPLATE	MS2107113
4	4	4	4	51	600.0795	NUTPLATE	MS21047106
6	6	6	6	50	601.3066	NUTPLATE	MS21047106
6	6	6	6	49	601.3065	NUTPLATE	MS21047106
18	18	18	18	48	601.2973	LOCKNUT	MS21042106
79	79	79	79	47	601.2943	LOCKNUT	MS21042106
4	4	4	4	46	601.2364	CHERRY RIVET	CR3213-4-8
28	28	42	42	45	601.1183	CHERRY RIVET	CR3213-4-5
16	16	19	19	44	601.1915	CHERRY RIVET	CR3213-4-4
24	24	32	32	43	601.0790	CHERRY RIVET	CR3213-4-3
31	31	13	13	42	601.1039	CHERRY RIVET	CR3213-4-2
3704	3703	3702	3701	FIND #	PART #	DESCRIPTION	MAT'L SPEC.

UNINCORPORATED ECN(S)

01228 04845 04881

REV.	DESCRIPTION	DATE	APPROVED
1	LAST PROTOTYPE REVISION: PRI		N/C
2	INITIAL RELEASE	09-29-09	P. BRAYCO

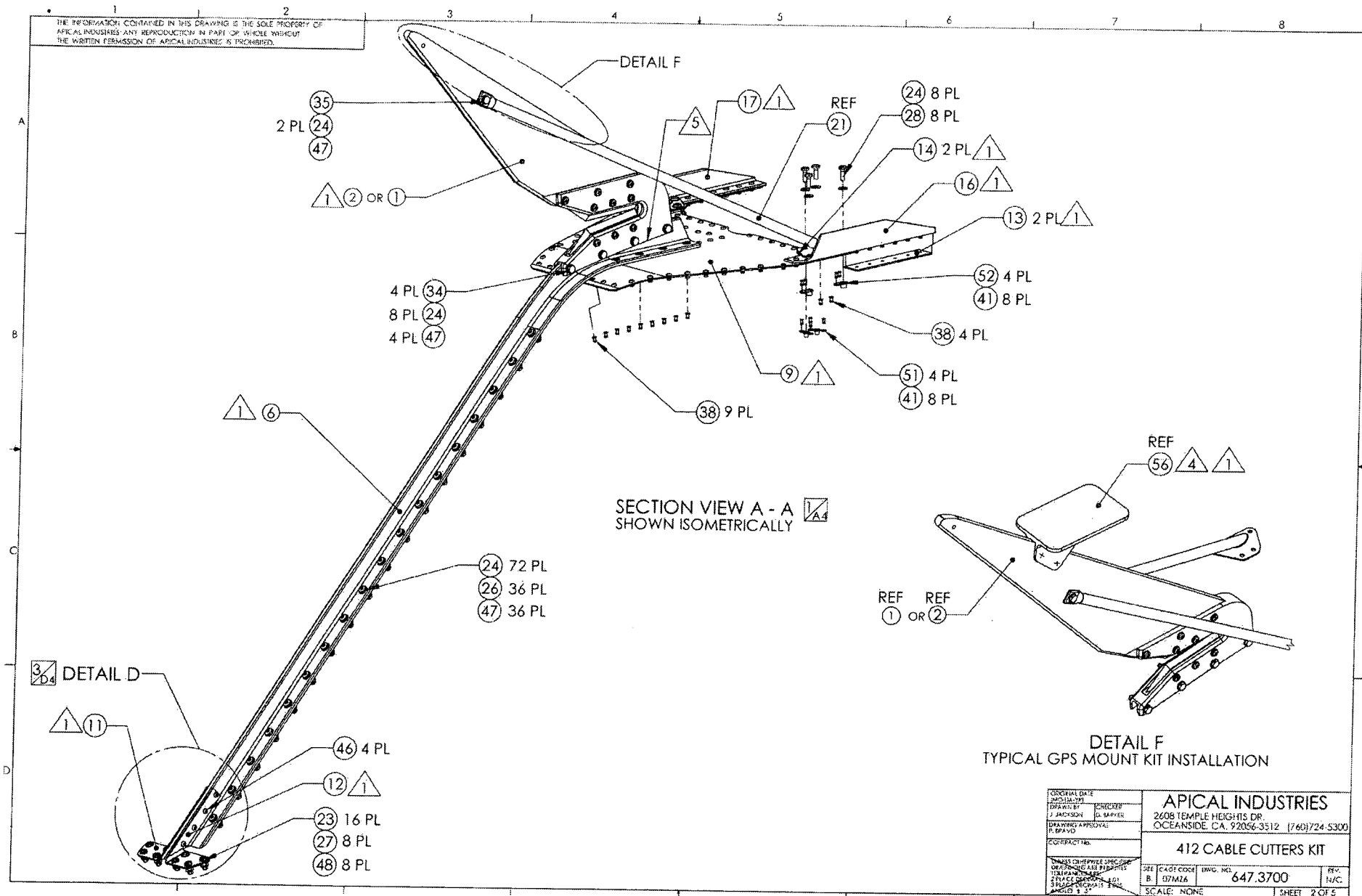
16	16	16	16	41	601.2207	NUTPLATE RIVET	CR3264SS-3-03
12	12	12	12	40	601.2491	NUTPLATE RIVET	CR3264SS-3-04
7	7	4	4	39	601.1066	CHERRY RIVET	CR3212-4-4
17	17	17	17	38	601.1065	CHERRY RIVET	CR3212-4-3
5	5	6	6	37	601.1604	CHERRY RIVET	CR3212-4-2
6	6	6	6	36	601.3082	CHERRY RIVET	CR3212-4-1
2	2	2	2	35	601.1874	BOLT	AN3C10A
8	8	8	8	34	601.2826	BOLT	AN3C11A
3	3	3	3	33	601.2823	BOLT	AN3C4A
1	1	1	1	32	601.3073	CONNECTOR	052-4461
8	8	8	8	31	601.2419	SCREW	MS2469-4CS3
1	1	1	1	30	601.3070	SCREW	MS2469-4-54P
2	2	2	2	29	601.2893	SCREW	MS27039-0E11
14	14	14	14	28	601.3069	SCREW	MS27039-1-09P
16	16	16	16	27	601.2263	SCREW	MS27039-080E
42	42	42	42	26	601.1365	SCREW	MS27039-1-10
12	12	12	12	25	601.2198	SCREW	MS27039-1-07
157	157	157	157	24	601.1607	WASHER	NAS1149P332P
34	34	34	34	23	601.2764	WASHER	NAS1149P332P
1	1	1	1	22	647.4313	RH UPPER STRUT	
1	1	1	1	21	647.4312	LH UPPER STRUT	
1	1	1	1	20	647.4310	LH LOWER STRUT	
1	1	1	1	19	647.4311	RH LOWER STRUT	
1	1	1	1	18	647.4212	PLATE	
1	1	1	1	17	647.4211	BRACKET RH	
1	1	1	1	16	647.4210	BRACKET LH	
1	1	1	1	15	647.4116	SHIM	
2	2	2	2	14	647.4115	SHIM	
2	2	2	2	13	647.4114	SHIM	
1	1	1	1	12	647.4113	CLIP	
1	1	1	1	11	647.4112	CLIP	
1	1	1	1	10	647.4111	DOUBLER	
1	1	1	1	9	647.4110	DOUBLER	
1	1	1	1	8	647.4011	WIPER DEFLECTOR LH	
1	1	1	1	7	647.4010	WIPER DEFLECTOR RH	
1	1	1	1	6	647.3915	DEFLECTOR	
1	1	1	1	5	647.4410	RAIL	
1	1	1	1	4	647.3804	LOWER CUTTER ASSY HIGH	
1	1	1	1	3	647.3803	LOWER CUTTER ASSY LOW	
1	1	1	1	2	647.3802	212 UPPER CUTTER ASSY	
1	1	1	1	1	647.3801	412 UPPER CUTTER ASSY	
					647.3704	204, 205, 212 CABLE CUTTERS KIT HIGH	
					647.3703	204, 205, 212 CABLE CUTTERS KIT LOW	
					647.3702	412 CABLE CUTTERS KIT HIGH	
					647.3701	412 CABLE CUTTERS KIT LOW	

QTY
NEXT ASSY (S)

ORIGINAL DATE: 09-28-09
DRAWN BY: J. JACKSON
CHECKED BY: D. BARTER
DESIGNED BY: J. JACKSON
DATE: 09-28-09
CONTRACT NO.

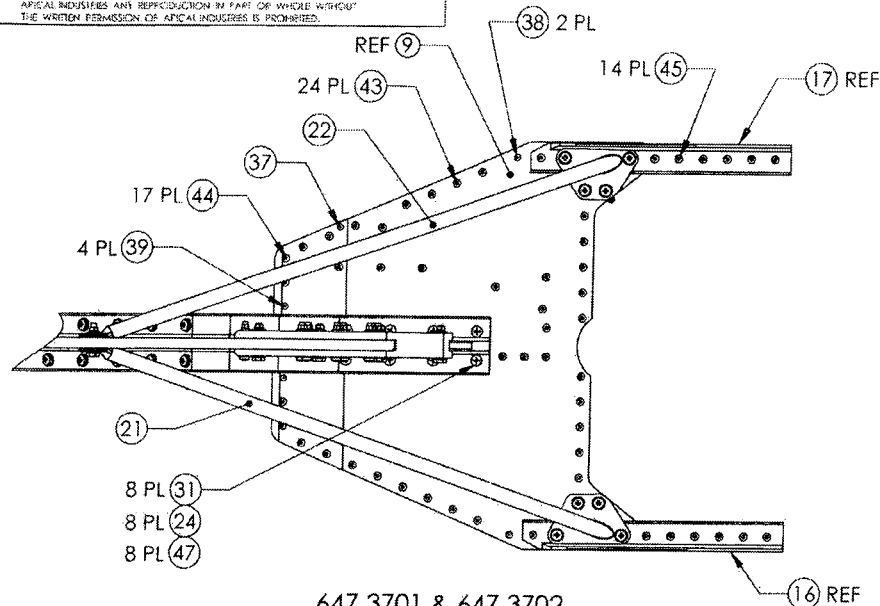
UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
FRACTIONS ARE 1/16, 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1, 1 1/4, 1 1/2, 1 3/4, 2, 2 1/4, 2 1/2, 2 3/4, 3, 3 1/4, 3 1/2, 3 3/4, 4, 4 1/4, 4 1/2, 4 3/4, 5, 5 1/4, 5 1/2, 5 3/4, 6, 6 1/4, 6 1/2, 6 3/4, 7, 7 1/4, 7 1/2, 7 3/4, 8, 8 1/4, 8 1/2, 8 3/4, 9, 9 1/4, 9 1/2, 9 3/4, 10, 10 1/4, 10 1/2, 10 3/4, 11, 11 1/4, 11 1/2, 11 3/4, 12, 12 1/4, 12 1/2, 12 3/4, 13, 13 1/4, 13 1/2, 13 3/4, 14, 14 1/4, 14 1/2, 14 3/4, 15, 15 1/4, 15 1/2, 15 3/4, 16, 16 1/4, 16 1/2, 16 3/4, 17, 17 1/4, 17 1/2, 17 3/4, 18, 18 1/4, 18 1/2, 18 3/4, 19, 19 1/4, 19 1/2, 19 3/4, 20, 20 1/4, 20 1/2, 20 3/4, 21, 21 1/4, 21 1/2, 21 3/4, 22, 22 1/4, 22 1/2, 22 3/4, 23, 23 1/4, 23 1/2, 23 3/4, 24, 24 1/4, 24 1/2, 24 3/4, 25, 25 1/4, 25 1/2, 25 3/4, 26, 26 1/4, 26 1/2, 26 3/4, 27, 27 1/4, 27 1/2, 27 3/4, 28, 28 1/4, 28 1/2, 28 3/4, 29, 29 1/4, 29 1/2, 29 3/4, 30, 30 1/4, 30 1/2, 30 3/4, 31, 31 1/4, 31 1/2, 31 3/4, 32, 32 1/4, 32 1/2, 32 3/4, 33, 33 1/4, 33 1/2, 33 3/4, 34, 34 1/4, 34 1/2, 34 3/4, 35, 35 1/4, 35 1/2, 35 3/4, 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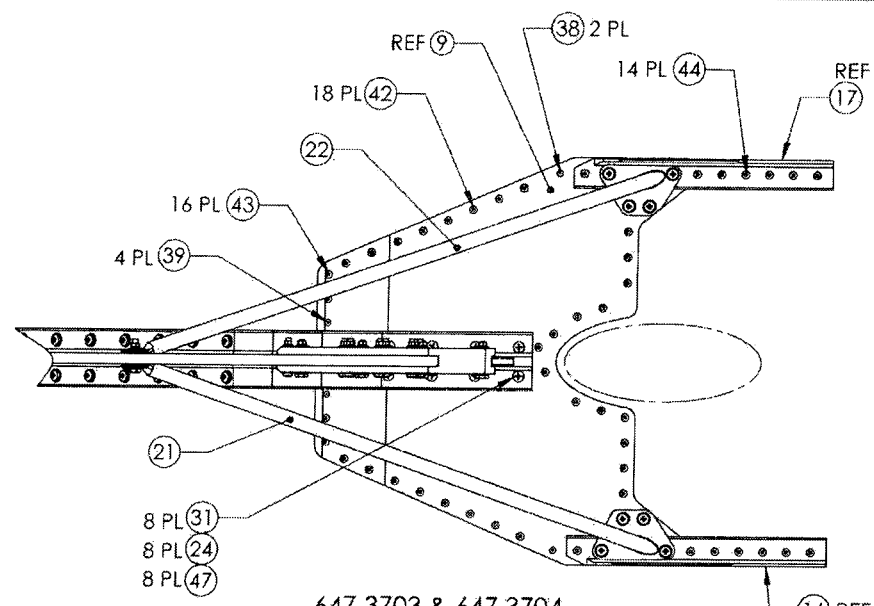


ORIGINAL DATE JANUARY 1991	DESIGNED BY J. JACKSON	CHECKED BY G. MARKER	APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760) 724-5300	
DRAWING APPROVAL P. BRAYD			412 CABLE CUTTERS KIT	
CONTRACT NO.				
DRAWING SPECIFICATIONS CUTTING TOOL SPECIFICATIONS				

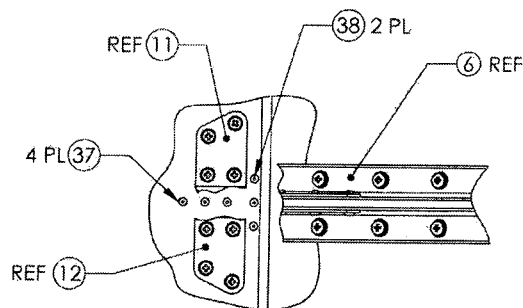
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647.3701 & 647.3702
UPPER CUTTER ASSEMBLY
TOP VIEW



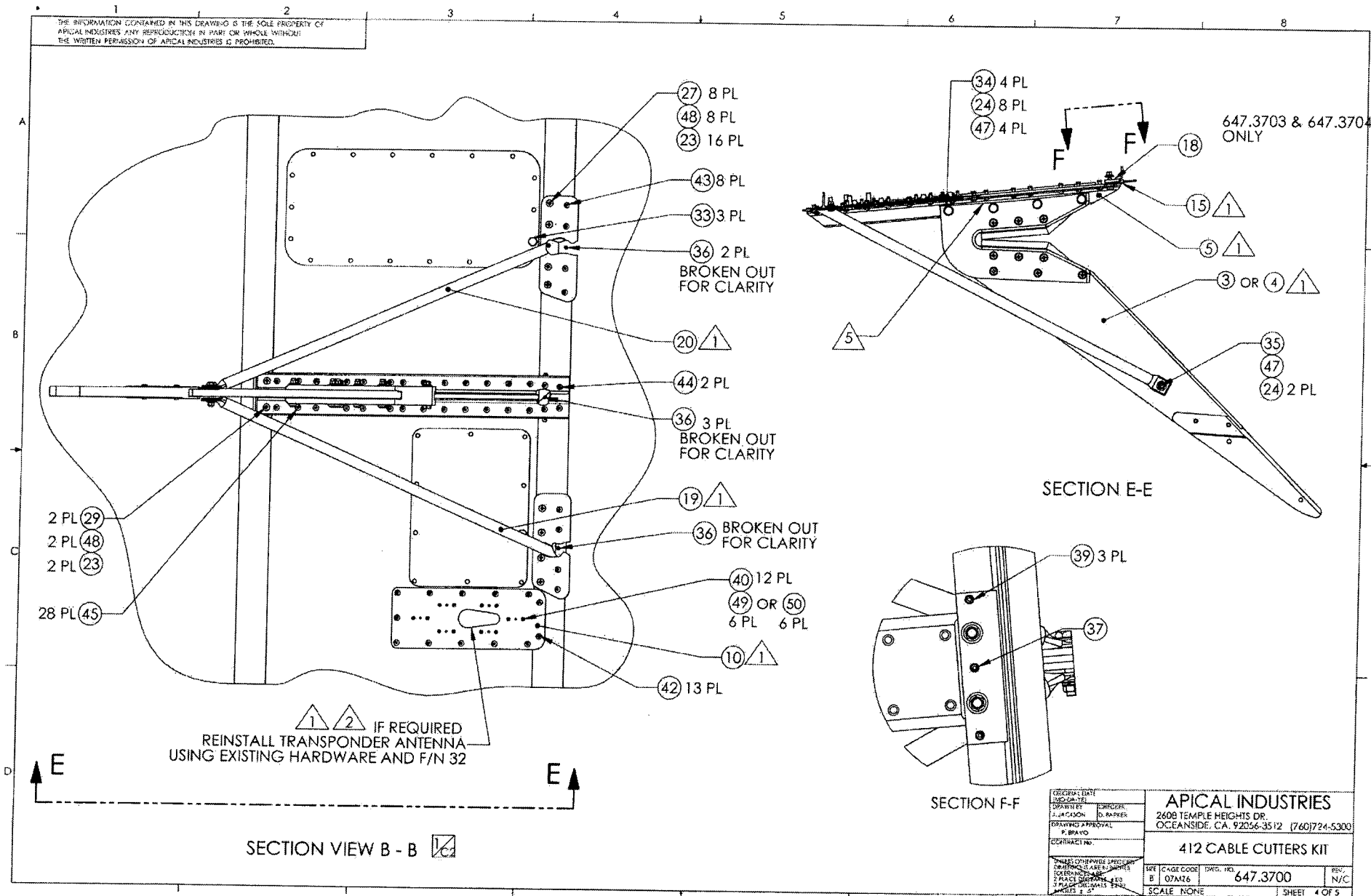
647.3703 & 647.3704
UPPER CUTTER ASSEMBLY
TOP VIEW



DETAIL D
TOP VIEW
BROKEN OUT FOR CLARITY

APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-6300	
412 CABLE CUTTERS KIT	
DRAWN BY: C. J. JACKSON CHECKED BY: D. BURKE DRAWING APPROVAL: P. BRAYO CONTRACT NO.:	SCALE: NONE SHEET: 3 OF 5
PART NAME: 647.3700 PART CODE: B PART CODE: 07A126 PART CODE: 07A126 PART CODE: 07A126	REV: N/C DATE: 07/12/06

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ORIGINAL DATE 10/24/87		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWN BY J. JACKSON		412 CABLE CUTTERS KIT	
CHECKED BY P. BRAYO		SIZE B	QTY 1
DATE 10/24/87		SCALE NONE	SHEET 4 OF 5

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BROKEN OUT FOR CLARITY
RH SIDE ONLY

△ LH ⑧
OR
△ RH ⑦

DETAIL C 
LH SHOWN, RH OPPOSITE
2 PL

②⑧ 3 PL
②④ 6 PL
④⑦ 3 PL

⑤③ TRIM TO FIT

②⑥ 3 PL
②④ 6 PL
④⑦ 3 PL

②⑤ 6 PL
②④ 12 PL
④⑦ 6 PL

ORIGINAL DATE 1/20/04 DRAWN BY C. HICKLEY CHECKED BY D. BAUER DRAWING APPROVAL P. BRADY CONTRACT NO.				APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760) 724-5300			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES: 2 PLACES DECIMALS ±.01 3 PLACES DECIMALS ±.005 ANGLES ±.5°				412 CABLE CUTTERS KIT			
SIZE	CAGE CODE	QWC. NO.	REV.	647.3700			
B.	07M16			N/C			
SCALE: NONE				SHEET 5 OF 5			

REFERENCE ONLY

DAS
9
9-89

UNINCORPORATED ECN(S)

01722, 04845, 04881

REV	DESCRIPTION	DATE	APPROVED
1	LAST PROPOSED REVISION (REV)		REV
2	ORIGINAL RELEASE	07/20/89	P. BRADY

NOTES:

- 1 AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES.
- 2 IF REQD, USE F/N 32 TO CONNECT CO-AXIAL CABLE.
- 3 VENDOR: ONLINECOMPONENTS.COM
- 4 AT CUSTOMERS OPTION, INSTALL F/N 56 BY MATCH DRILLING ONTO F/N 1 OR F/N 2.
- 5 APPLY F/N 55 TO FAYING SURFACES.
- 6 VENDOR: MCMMASTER-CARR
VENDOR P/N: 86715K27
60A DUROMETER

DETAIL C

4/203

647.3701 SHOWN

REF	REF	REF	REF	56	647.5701	GPS MOUNT KIT		
A/R	A/R	A/R	A/R	55	601.2045	RTV	LOCKITE 996	2
A/R	A/R	A/R	A/R	54	601.1012	SEALANT	PR-1235 GLASS	2
1	1	1	1	53	601.3083	ADHESIVE RUBBER SEAL	MIL-R-NN65	6
4	4	4	4	52	601.2957	NUTPLATE	MS210713	
4	4	4	4	51	600.0795	NUTPLATE	MS21047-3	
6	6	6	6	50	601.3066	NUTPLATE	MS21047108	
6	6	6	6	49	601.3065	NUTPLATE	MS21047106	
18	18	18	18	48	601.2973	LOCKNUT	MS21042-08	
79	79	79	79	47	601.2943	LOCKNUT	MS21042-3	
4	4	4	4	46	601.2364	CHEERRY RIVET	CR3213-4-8	
28	28	42	42	45	601.1183	CHEERRY RIVET	CR3213-4-5	
16	16	19	19	44	601.1915	CHEERRY RIVET	CR3213-4-4	
24	24	32	32	43	601.0790	CHEERRY RIVET	CR3213-4-3	
31	31	13	13	42	601.1039	CHEERRY RIVET	CR2513-4-2	
3704	3703	3702	3701	PIN#	PART #	DESCRIPTION	MAT'L	SPEC.

16	16	16	16	41	601.2207	NUTPLATE RIVET	CR3213-4-3	
12	12	12	12	40	601.2491	NUTPLATE RIVET	CR3213-4-4	
7	7	4	4	39	601.1066	CHEERRY RIVET	CR3213-4-4	
17	17	17	17	38	601.1055	CHEERRY RIVET	CR3213-4-3	
5	5	6	6	37	601.1604	CHEERRY RIVET	CR3213-4-2	
6	6	6	6	36	601.3082	CHEERRY RIVET	CR3213-4-1	
2	2	2	2	35	601.1874	BOLT	AN3-11A	
9	8	8	8	34	601.2826	BOLT	AN3-11A	
3	3	3	3	33	601.2823	BOLT	AN3-11A	
1	1	1	1	32	601.3073	CONNECTOR	180-4440	2
8	8	8	8	31	601.2419	SCREW	MS24664053	
1	1	1	1	30	601.3070	SCREW	MS24664049	
2	2	2	2	29	601.2893	SCREW	MS24664041	
14	14	14	14	28	601.3069	SCREW	MS24664040	
16	16	16	16	27	601.2263	SCREW	MS24664038	
42	42	42	42	26	601.1365	SCREW	MS24664037	
12	12	12	12	25	601.2198	SCREW	MS24664036	
157	157	157	157	24	601.1607	WASHER	NAT1149F0332P	
34	34	34	34	23	601.2764	WASHER	NAT1149F0332P	
1	1	1	1	22	647.4313	RH UPPER STRUT		
1	1	1	1	21	647.4312	LH UPPER STRUT		
1	1	1	1	20	647.4310	LH LOWER STRUT		
1	1	1	1	19	647.4311	RH LOWER STRUT		
1	1	1	1	18	647.4212	PLATE		
1	1	1	1	17	647.4211	BRACKET RH		
1	1	1	1	16	647.4210	BRACKET LH		
1	1	1	1	15	647.4116	SHIM		
2	2	2	2	14	647.4115	SHIM		
2	2	2	2	13	647.4114	SHIM		
1	1	1	1	12	647.4113	CLIP		
1	1	1	1	11	647.4112	CLIP		
1	1	1	1	10	647.4111	DOUBLER		
1	1	1	1	9	647.4110	DOUBLER		
1	1	1	1	8	647.4011	WIPER DEFLECTOR LH		
1	1	1	1	7	647.4010	WIPER DEFLECTOR RH		
1	1	1	1	6	647.3915	DEFLECTOR		
1	1	1	1	5	647.4410	RAIL		
1	1	1	1	4	647.3804	LOWER CUTTER ASSY HIGH		
1	1	1	1	3	647.3803	LOWER CUTTER ASSY LOW		
1	1	1	1	2	647.3802	212 UPPER CUTTER ASSY		
1	1	1	1	1	647.3801	412 UPPER CUTTER ASSY		
					647.3704	204, 205, 212 CABLE CUTTERS KIT HIGH		
					647.3703	204, 205, 212 CABLE CUTTERS KIT LOW		
					647.3702	412 CABLE CUTTERS KIT HIGH		
					647.3701	412 CABLE CUTTERS KIT LOW		
					3704	3703	3702	3701
					PART #	DESCRIPTION	MAT'L	SPEC.

QTY
NEXT ASSY (S)

ORIGINAL DATE: 08-20-89
DRAWN BY: J. JACOBSON
CHECKED BY: D. BARBER
DATE: 08-20-89
CONTRACT NO. 13

PARTS LIST

APICAL INDUSTRIES
2608 TEMPLE HEIGHTS DR.
OCEANSIDE, CA. 92056-3512 (760)724-5300

412 CABLE CUTTERS KIT

DATE: 07/20/89 DATES: 07/20/89
BY: 07/20/89
SCALE: NONE
SHEET: 1 OF 5



APICAL INDUSTRIES, INC.
dba DART AEROSPACE

ENGINEERING CHANGE NOTICE NO.

04881

SHEET 1 OF 1

DWG NO. 647.3700

REV: N/C

PREPARED BY J. BECKER

DATE: 02/26/15

EFFECT ON DWG

☐ INC. ☒ UNINC.

DWG TITLE: 412 CABLE CUTTERS KIT

APPROVED BY:

ENGR

MFG

QC

EFF.

NEXT ORDER

TRANSACTION CODES (TC):

A-ADD
R-REVISE

C-CREATE
D-DELETE

REASON: DELETED F/N 57, REVISED F/N 6.

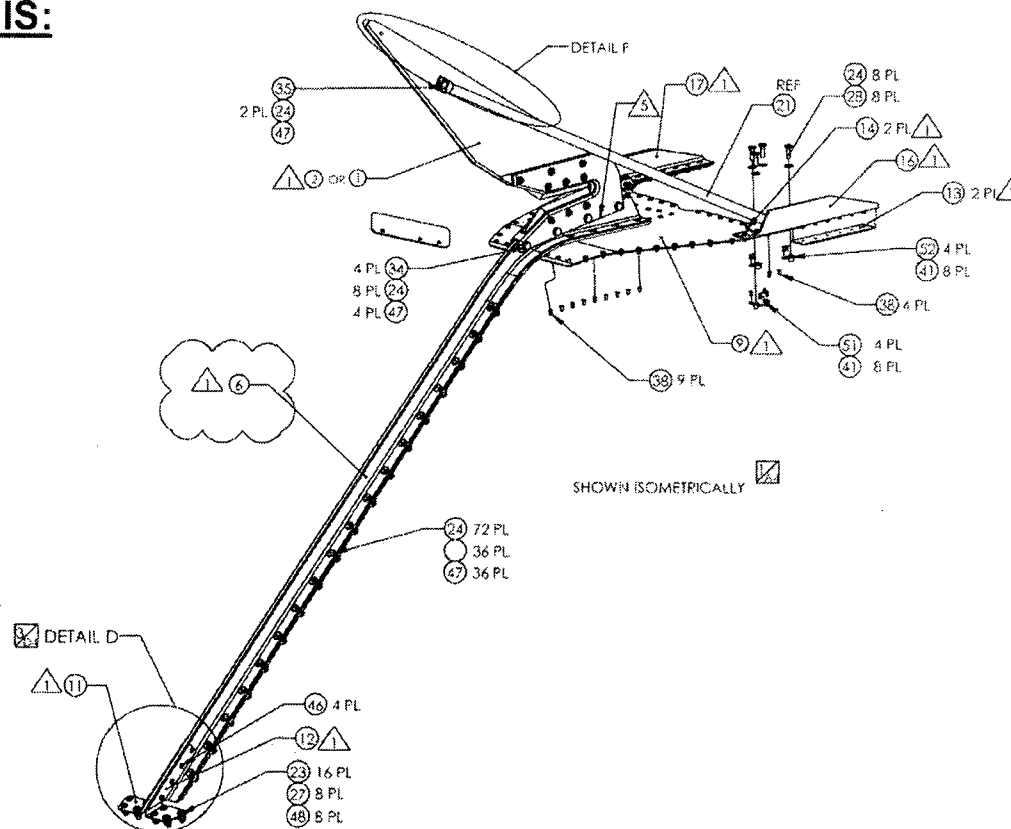
ECR:

N/A

ACTION ITEM:

1.

SHEET 1, ZONE C5 IS:



REFERENCE ONLY

57	D	647.3916	1	1	1	1	DEFLECTOR UPPER HALF		
6	R	647.3903	1	1	1	1	DEFLECTOR ASSEMBLY		
F/N/TC	PART NUMBER	3704	3703	3702	3701		DESCRIPTION	MATERIAL	SPECIFICATION

DOCUMENTS EFFECTED:

☐ PATTERN ☐ MDL ☐ INSTALL INSTRUCTIONS ☐ ICA ☐ FMS ☒ BOM

CHANGE CATEGORY

☐ MAJOR ☒ MINOR

DER REVIEW REQUIRED

☐ YES ☒ NO